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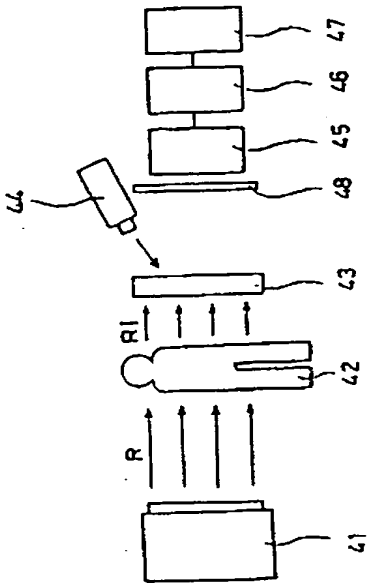
TITLE : MANUFACTURE OF RADIATION IMAGE CONVERSION PANEL



ABSTRACT : PURPOSE: To enable a composition of a sharply focused radiation image conversion without any deformation of a panel at its usage, by holding a temperature of a depositing layer base at a specific value and by forming a stimulative phosphorescent layer with a gaseous deposition method.

CONSTITUTION: A crystallized glass carrier of around 1.0mm thick is placed in a vacuum evaporator as a depositing layer base and then an alkalihalide stimulative phosphorescence is put in a water cooled melting pot and is pressed so as to form the shape of the melting pot. After that, the vacuum evaporator is evacuated and the stimulative phosphorescence is vaporized with an EB gun, being supplied with power, while keeping the temperature of the base within ±20°C range of its operating temperature. When a radiation R is emitted from a radiation generator 41 through an object 42 into a radiation image conversion panel 43 obtained in this way, the radiation R is absorbed to the stimulated phosphorescent layer of the panel 43 to compose an accumulated image of transmissive image. Therewith, making the image stimulated with a stimulated light source of the layer 44, the photo-signal can be displayed 47 as an image through a photoelectric converter 45 and an image regenerator 46.

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